BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA PROJECT ZONE

Consultancy Services for preparation of Surveys, Designs, Drawing, Estimate Preparation etc..(Detailed Project Report) for the work of Development of Burial Ground Ward No-11, Kuvempunagar.

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
		Estimate Cost Rs.							14445000.00
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1 Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For CC Road								
	Burial Ground	Cum							
	Kuvempu Layout pathway		1	80.00	2.00	0.3	48.00		
	singapura layout near Hospital pathway		1	80.00	2.00	0.3	48.00		
	singapura layout near Muslim Ground pathway		1	150.00	2.00	0.3	90.00		
	singapura layout near Hindu Ground pathway		1	200.00	2.00	0.3	120.00		
	singapura layout near Christian Ground pathway		1	120.00	2.00	0.3	72.00		
	Flatform								
	Muslim		1.00	20.00	16.00	0.30	96.00		
	Hindu		1.00	20.00	15.00	0.30	90.00		
	Ashraya Badavane		1.00	10.00	5.00	0.30	15.00		
						Cum	579.00	137.80	79786.20
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Total	137.80							
2	KSRRB M300-59.2 **loosening, leveling and compacting original ground** supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in table 300-2 for embankment construction, complete as per specifications, case-II: compacting original ground supporting embankment, (which includes watering charges & compaction by vibratory roller) MORTH specification **No. 3.5.3.4 Page No. 146. Item No. 19.56/ PWD SR 2018-19**								
	For CC Road	Sqm							
	Burial Ground								
	Kuvempu Layout pathway		1	80.00	2.00		160.00		
	singapura layout near Hospital pathway		1	80.00	2.00		160.00		
	singapura layout near Muslim Ground pathway		1	150.00	2.00		300.00		
	singapura layout near Hindu Ground pathway		1	200.00	2.00		400.00		
	singapura layout near Christian Ground pathway		1	120.00	2.00		240.00		
						Sqm	1260.00	24.38	30719.00
	Basic Rate	23							
	Area Weightage @ 6%	1.38							
	Total	24.38							
3	KSRB-4-1.3 : Providing and laying in position **plain cement concrete of mix M 1:4:8** withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2,**P No. 13/ Item No. 4.3/ PWD SR 2018-19**								
	For CC Road	cum							
	Burial Ground								
	Kuvempu Layout pathway		1	80.00	2.00	0.1	16.00		
	singapura layout near Hospital pathway		1	80.00	2.00	0.1	16.00		
	singapura layout near Muslim Ground pathway		1	150.00	2.00	0.1	30.00		
	singapura layout near Hindu Ground pathway		1	200.00	2.00	0.1	40.00		
	singapura layout near Christian Ground pathway		1	120.00	2.00	0.1	24.00		
	Flatform		1.00	20.00	16.00	0.10	32.00		
	Muslim		1.00	20.00	15.00	0.10	30.00		
	Hindu		1.00	10.00	5.00	0.10	5.00		
	Ashraya Badavane					cum	193.00	5408.12	1043767.00
	Basic Rate	5102							
	Area Weightage @ 6%	306.12							
	Total	5408.12							

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
4	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum.Coarse and fine aggregate conforming to IS 383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. **(P.No-176,I No-22.6.1)**								
	For CC Road	Cum							
	Burial Ground								
	Kuvempu Layout pathway								
	singapura layout near Hospital pathway		1	80.00	2.00	**0.15**	24.00		
	singapura layout near Muslim Ground pathway		1	80.00	2.00	**0.15**	24.00		
	singapura layout near Hindu Ground pathway		1	150.00	2.00	**0.15**	45.00		
	singapura layout near Christian Ground pathway		1	200.00	2.00	**0.15**	60.00		
	Flatform		1	120.00	2.00	**0.15**	36.00		
	Muslim								
	Hindu								
	Ashraya Badavane		1	20.00	16.00	**0.10**	32.00		
			1	20.00	15.00	**0.10**	30.00		
			1	10.00	5.00	**0.10**	5.00		
	Basic Rate	**4916**				**Cum**	**256.00**	**5210.96**	**1334006.00**
	Area Weightage @ 6%	**294.96**							
	Total	**5210.96**							
5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	For RCC Drain	**Sqm**							
	Muslim Burial Ground								
	Ashraya badavane		1.00	25.00	0.90		22.50		
			1.00	25.00	0.90		22.50		
	Data Rate	**2337**				**Sqm**	**45.00**	**2337**	**105165.00**
6	Earth work excavation for foundation of building, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depyh including the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specification No. KBS 2.1 (b)/ 2.3.5 **PWD SR 2018-19 It No.2.4 Pg. No.6**								
	Walls								
	Muslim Burrial ground		1	190.00	0.75	**0.75**	106.88		
	Singapura layout near Hospital		1	170.00	0.75	**0.75**	95.63		
	Ashraya Badavane		1	20.00	0.75	**0.75**	11.25		
	Kuvempu nagar								
	For Entrance		61	0.45	0.45	**0.60**	7.41		
	Singapura layout near Hospital								
	Singapura layout		2	2.00	2.00	**1.20**	9.60		
	Hindu Burrial ground								
	Muslim Burrial ground		2	2.00	2.00	**1.20**	9.60		
	Christian		2	2.00	2.00	**1.20**	9.60		
	Kuvempu nagar		2	2.00	2.00	**1.20**	9.60		
	Ashraya Badavane near Hospital		2	2.00	2.00	**1.20**	9.60		
	For Ligthing Pole		2	2.00	2.00	**1.20**	9.60		
			50.00	1.65	0.70	**0.70**	40.43		
	Basic Rate	**449.00**				**Cum**	**319.19**	**484.92**	**154779.92**
	Area Weightage 8%	**35.92**							
	Total	**484.92**							
7	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.**PWD SR 2018-19 It No.4.2 Pg. No.13**								
	Walls								
	Muslim Burrial ground		1	190.00	0.75	**0.15**	21.38		
	Singapura layout near Hospital		1	170.00	0.75	**0.15**	19.13		
	Ashraya Badavane		1	20.00	0.75	**0.15**	2.25		
	Kuvempu nagar		61	0.45	0.45	**0.15**	1.85		
	For Entrance								

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Singapura layout near Hospital								
	Singapura layout		2	2.00	2.00	0.15	1.20		
	Hindu Burrial ground								
	Muslim Burrial ground		2	2.00	2.00	0.15	1.20		
	Christian		2	2.00	2.00	0.15	1.20		
	Kuvempu nagar		2	2.00	2.00	0.15	1.20		
	Ashraya Badavane near Hospital		2	2.00	2.00	0.15	1.20		
	For Ligthing Pole		50.00	0.70	0.70	0.05	1.23		
	Basic Rate	5194.00							
	Area Weightage 8%	415.52							
	Total	5609.52							297460.93
						Cum	53.03	5609.52	
8	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **PWD SR 2018-19 It No.5.5 Pg. No.25**								
	1st Footing								
	wall								
	Muslim Burrial ground		1	190.00	0.60	0.45	51.30		
	Singapura layout near Hospital		1	170.00	0.60	0.45	45.90		
	Ashraya Badavane		1	20.00	0.60	0.45	5.40		
	Kuvempu nagar		1	120.00	0.60	0.45	32.40		
	Basic Rate	4494.00							
	Area Weightage 8%	359.52							
	Total	4853.52							655225.20
						Cum	135.00	4853.52	
9	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **PWD SR 2018-19 It No.5.6 Pg. No.25**								
	2nd Footing								
	wall								
	Muslim Burrial ground		1	190.00	0.45	0.45	38.48		
	Singapura layout near Hospital		1	300.00	0.45	0.45	60.75		
	Ashraya Badavane		1	20.00	0.45	0.45	4.05		
	Kuvempu nagar		1	120.00	0.45	0.45	24.30		
	Basic Rate	4596.00							
	Area Weightage 8%	367.68							
	Total	4963.68							633241.00
						Cum	127.58	4963.68	
10	Providing **flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar, **20mm** deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, HOM curing complete as per specifications.**PWD SR 2018-19, It No.34.12.1**								
	Basement								
	Wall		1	190.00		0.45	85.50		
	Muslim Burrial ground		1	170.00		0.45	76.50		
	Singapura layout near Hospital		1	120.00		0.45	54.00		
	Kuvempu nagar		1	20.00		0.45	9.00		
	Ashraya Badavane								
	Basic Rate	141.00							
	Area Weightage 8%	11.28							
	Total	152.28							34263.00
						Sqm	225.00	152.28	
11	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, ,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 **PWD SR 2018-19 It No.4.12Pg. No.14**								
	For Entrance								
	Singapura layout		2	1.80	1.80	0.45	2.92		
	Hindu Burrial ground		2	1.80	1.80	0.45	2.92		
	Muslim Burrial ground		2	1.80	1.80	0.45	2.92		
	Christian		2	1.80	1.80	0.45	2.92		
	Kuvempu nagar		2	1.80	1.80	0.45	2.92		

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Ashraya Badavane near Hospital								
	Singapura layout		2	1.80	1.80	0.45	2.92		
	Hindu Burrial ground								
	Muslim Burrial ground		2	0.45	0.45	6.00	2.43		
	Christian		2	0.45	0.45	6.00	2.43		
	Kuvempu nagar		2	0.45	0.45	6.00	2.43		
	Ashraya Badavane near Hospital		2	0.45	0.45	6.00	2.43		
	Kuvempu nagar		2	0.45	0.45	6.00	2.43		
	Ashraya Badavane		61	0.45	0.45	0.45	5.56		
	Muslim Burrial ground		1	100.00	0.20	0.15	3.00		
	Ashraya Badavane		77	0.30	0.20	0.30	1.39		
	Muslim Burrial ground		70	0.30	0.20	0.30	1.26		
	Singapura layout near Hospital		1	190.00	0.20	0.15	28.50		
	For Ligthing Pole		1	170.00	0.20	0.15	25.50		
			50.00	1.60	0.70	0.70	39.20		
	Basic Rate	6045							
	Area Weightage 8%	483.6							
	Total	6528.6							
						Cum	131.13	6528.60	856126.00
12	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 Specification No.KBS 4.6.3 **PWD SR 2018-19 It No.4.46.2Pg. No.18**								
		Nos		**Qty**	**Kg/cum**	**Kgs**			
	For footings @ 60 Kg/ Cum		1	14.58	60	874.8			
	For Columns @ 100 Kg/ Cum		1	17.71	100	1771			
	Coping @ 40kg/Cum		1	3.00	40	120			
	For Ligthing Pole@ 40kg/Cum		1	39.20	40	1568			
						4333.8			
	Basic Rate	70966.00							
	Area Weightage 8%	5677.28							
	Total	76643.28							
						Ton	4.33	76643.28	332156.65
13	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **PWD SR 2018-19 It No.4.31Pg. No.16**								
	For Footting								
	For Entrance								
	Singapura layout								
	Hindu Burrial ground		8	1.80		0.45	6.48		
	Muslim Burrial ground		8	1.80		0.45	6.48		
	Christian		8	1.80		0.45	6.48		
	Kuvempu nagar		8	1.80		0.45	6.48		
	Ashraya Badavane near Hospital		8	1.80		0.45	6.48		
	For column								
	For Entrance								
	Singapura layout								
	Hindu Burrial ground		8	0.45		6.00	21.60		
	Muslim Burrial ground		8	0.45		6.00	21.60		
	Christian		8	0.45		6.00	21.60		
	Kuvempu nagar		8	0.45		6.00	21.60		
	Ashraya Badavane near Hospital		8	0.45		6.00	21.60		
	Basic Rate	358.00							
	Area Weightage 8%	28.64							
	Total	386.64							
						Cum	140.40	386.64	54284.00
14	Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **PWD SR 2018-19 It No.5.26.1Pg. No.27**								

5.26.1 , P-27

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Wall								
	Muslim Burial ground								
	Singapura layout near Hospital		1	190.00		1.80	342.00		
	Kuvempu nagar		1	170.00		3.00	510.00		
	Ashraya Badavane Burial ground		1	120.00		3.00	360.00		
	Basic Rate	912.00	2	20.00		3.00	60.00		
	Area Weightage 8%	72.96							
	Total	984.96							
15	Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required, smooth rendering. , Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **PWD SR 2018-19 It No.15.17Pg. No.116**						Sqm	1272.00	984.96	1252982.00
	External Plastering								
	Wall								
	Muslim Burial ground								
	inside and out side								
	Top								
	Singapura layout near Hospital		2	290.00		1.80	1044.00		
	inside and out side		1	290.00	0.20		58.00		
	Top								
	Ashraya Badavane Burial ground		2	170.00		3.00	1020.00		
			1	170.00	0.20		34.00		
	For Entrance		2	120.00		3.00	720.00		
	Singapura layout		1	120.00	0.20		24.00		
	Hindu Burial ground								
	Muslim Burial ground		8	0.45		5.00	18.00		
	Christian		8	0.45		5.00	18.00		
	Kuvempu nagar		8	0.45		5.00	18.00		
	Ashraya Badavane near Hospital		8	0.45		5.00	18.00		
			8	0.45		5.00	18.00		
	Basic Rate	245.00							
	Area Weightage 8%	19.6							
	Total	264.6							
16	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. **PWD SR 2018-19 It No.15.53.1 Pg. No.120**						Sqm	2990.00	264.60	791154.00
	Muslim Burial ground								
	Wall								
	Top		2	290.00		1.80	1044.00		
	Singapura layout near Hospital		1	290.00	0.20		58.00		
	Wall								
	Top		2	170.00		3.46	1176.40		
	Ashraya Badavane Burial ground		1	170.00	0.30		51.00		
			2	120.00		1.20	288.00		
	Hindu Building		1	120.00	0.30		36.00		
	For Entrance		1	35.00		6.00	210.00		
	Singapura layout								
	Hindu Burial ground								
	Muslim Burial ground		8	0.45		5.00	18.00		
	Christian		8	0.45		5.00	18.00		
	Kuvempu nagar		8	0.45		5.00	18.00		
	Ashraya Badavane near Hospital		8	0.45		5.00	18.00		
			8	0.45		5.00	18.00		
	Basic Rate	89.00							
	Area Weightage 8%	7.12							
	Total	96.12							
17	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete).**(P. No. 266, I.No.37.2 of SR 2018-19).**						Sqm	2953.40	96.12	283881.00
	For Y angle								
	Muslim Burrial ground								
	Singapura layout near Hospital		77	1.20			92.4		
			69	1.20			82.8		

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Ashraya Badavane								
			49	1.20			58.8		
	Basic rate Rs. 859.00								
	Add 8% A. W Rs. 68.72								
	Total Rs. 927.72								
18	Providing barbed GI wire fencing of 12x12 gauge drawn in to stone or iron pillers including drawing in holes wherever necessary excluding the cost of pillers but including cost of barbed wire and binding wire etc completes as per the specifications (P. No. 410, I.No.37.5 of SR 2018-19). P-266					Mt	234.00	927.72	217086.00
	Muslim Burrial ground								
	Singapura layout near Hospital		9	290.00			2610		
	Ashraya Badavane		9	170.00			1530		
			9	120.00			1080		
	Basic rate Rs. 32.00								
	Add 8% A. W Rs. 2.56								
	Total Rs. 34.56								
19	Providing and applying enamel metal paint one coat (excluding priming coat) on previously painted steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.(P. No. 123, I.No.15.74 of SR 2018-19)					Mt	5220.00	34.56	180403.00
	For Y Angle								
	Muslim Burrial ground		77	1.20		0.39	36.04		
	Singapura layout near Hospital		69	1.20		0.39	32.29		
	Ashraya Badavane		49	1.20		0.39	22.93		
	Basic rate Rs. 95.00								
	Add 8% A. W Rs. 7.60								
	Total Rs. 102.60								
20	Clearing grass and removal of rubbish by manual means and stacking outside the periphery of the area cleaned complete as per specifications.MORTH Specification No. 201 (P. No. 138, I.No.18.10 of SR 2018-19)					Sqm	91.26	102.60	9363.00
	Hindu Burrial Ground		1	12236.00			12236.00		
	Muslim Burrial Ground		1	176.00	32		5632.00		
	Singapura layout near Hospital		1	1400.00			1400.00		
			1	70	15		1050.00		
	Ashraya Badavane		1	35	25		875.00		
	Kuvempu Nagar		1	85	15		1275.00		
	Basic rate Rs. 25755.00								
	Add 8% A. W Rs. 2060.40								
	Total Rs. 27815.40								
						i.e Sqm/10000	22468.00		
						Ha	2.25	27815.40	62496.00
21	Fabricating, providing and erecting in poiston of M.S. Ornamental security Grill Gate without hot dip using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centere support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 ems C/C for square bars of full height and at Scms C / C for bottom rods providing ornamental C I Designers at the bottom and C I arrows in the midle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necesary drilling holes. the work includes providing two coats of enamel painting over one coatr of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulleycranes with all lead and lift, loading, transporting and unloading using hoist pulley cranes, scaffolding charges and all other incidental charges required for successful completion fo the work as per specification and drawings. (P. No. 43, I.No.7.31 of SR 2018-19)								
	For Entrance								
	Singapura layout								
	Hindu Burrial ground		1	6.00		2.10	12.60		
	Muslim Burrial ground		1	6.00		2.10	12.60		
	Christian		1	6.00		2.10	12.60		
	Kuvempu nagar		1	6.00		2.10	12.60		
	Ashraya Badavane near Hospital		1	6.00		2.10	12.60		
	Basic rate Rs. 132.00								
	Add 8% A. W Rs. 10.56								
	Total Rs. 142.56								
							63.00		
						Kgs	2520.00	142.56	359251.00
22	KSSRB MS00-5.2 Over Head Sign Board :Supply and installation of retro- reflective Over-Head Gantry sign boards made out of cube corner micro prismatic grade sheeting confirming to Type XI standards of IRC:67:2012 specification & fixed over 4mm thick Aluminium Composite Panel sheet having minimum 0.30 mm thick aluminum skin on both sides excluding the cost of back support frame, vertical support and horizontal support and foundation as directed by the engineer incharge of the work.(P. No. 190, I.No.24.60 of SR 2018-19) Specification IN-24.6 P-No-18								
	Name Boards								
	Singapura layout		1	6.00		1.00	6.00		

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Hindu Burrial ground		1	6.00		1.00	6.00		
	Muslim Burrial ground		1	6.00		1.00	6.00		
	Christian		1	6.00		1.00	6.00		
	Kuvempu nagar		1	6.00		1.00	6.00		
	Ashraya Badavane near Hospital								
	Basic rate Rs	9525.00				Sqm	30.00	10287.00	308610.00
	Add 8% A. W Rs	762.00							
	Total Rs	10287.00							
23	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) **(P.No. 266, I.No. 37.2 of PWD SR 2018-19)**								
	Kuvempu Nagar		61	3.20			195.20		181090.94
						Mtr	195.20	927.72	
	Basic Rate	859.00							
	Area Weightage 8%	68.72							
	Total	927.72							
24	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint **(P.No. 266, I.No. 37.3 of PWD SR 2018-19)**								
	Kuvempu Nagar		1	120.00		2.60	312.00		240926.40
						Sqm	312.00	772.20	
	Basic Rate	715.00							
	Area Weightage 8%	57.20							
	Total	772.20							
25	Providing and fixing Vitrified glazed tiles of approved make, quality & colour of size 600 x 600 x 10mm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, including cost of all mateirals, mortar, labour, etc . Complete as per specification **PWD SR 2018-19, It No.14.45 Pg No.109**								
	Muslim Burrial ground		1	25.00	20.00		500.00		
	Ashraya Badavane		1	10.00	6.00		60.00		590284.80
						Sqm	560.00	1054.08	
	Basic Rate	976.00							
	Area Weightage 8%	78.08							
	Total	1054.08							
26	Providing and placing on terrace, polyethylene water storage tanks as per IS12701 : 1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM and testing complete as per specifications. (For 1000 litre capacity) Specification No.KBS 13.22.Page No.96, Item No.13.78, PWD SR 2018-19.								
	Burial ground						4.00		
	Basic rate	6828.00							
	Area Weightage 8%	546.24							
	Sub Total	7374.24							
						Nos	4.00	7374.24	29496.96
27	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM and testing complete as per specifications.Page No.255, Item No.34.7.8, PWD SR 2018-19.								
	Burial ground						50.00		
	Basic rate	434.00							
	Area Weightage 8%	34.72							
	Sub Total	468.72							
						Mtr	50.00	468.72	23436
28	**Modern Outdoor Granite Bench or Garden Stone Bench, Size (Feet): 5 Feet , Sadarhalli granite,Bench Type With Back,Seating Capacity 3 Seater, (Data Rate)**								
	Burial Ground						20		
						Nos	20.00	10000	200000.00
	Data Rate	10000							
29	KSRB 8.3-2 : Providing and laying to required line and slope roofing with semi-corrugated (Trafford) asbestos cement sheet 6mm. thick fixed with galvanised iron J or L hooks, bolts and nuts 8mm. dia C.I plain and bitumen washers, over the existing purlins, rafters and trusses including cost of materials, labour, complete as per specifications.**PWD SR 2018-19, It No.8.6 Pg No.48**								

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Muslim Burrial ground								
	Ashraya Badavane								
			1	11.00	10.00		110.00		
			1	11.00	6.00		66.00		
						Sqm	**176.00**	**403.92**	**71089.92**
	Basic Rate	**374.00**							
	Area Weightage 8%	**29.92**							
	Total	**403.92**							
30	Fabricating, supplying & erecting M.S.Angular Truss for all spans as per approved designs and drawing. The entire truss is anchored suitably by using 4 Nos. of M.S. anchor bolts at each support, with base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S angle and welding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, & hire charges of machineries for cutting, welding, grinding & erection equipments, etc , complete as per specification **PWD SR 2018-19, It No.7.3 Pg No.43**								
	Burial ground								
	Ashraya Badavane								
			1	600.00			600.00		
			1	300.00			300.00		
						Kgs	**900.00**	**403.92**	**363528.00**
	Basic Rate	**374.00**							
	Area Weightage 8%	**29.92**							
	Total	**403.92**							
	Electrical Works								
31	Febricating, supplying and erection of ... Mtrs long hot dip **Galvanized Octagonal pole** with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of ..... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended.**4 meters -Top 70mm and bottom 130mm dia (P.No.13, I.No.4.2.2 of KPWD Electrical SR 19-20)**								
		Each							
	Singapura Layout Burial Ground						50.00		
			50			**Each**	**50.00**	**6510.00**	**325500.00**
	Basic Rate	**6510**							
32	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains. Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Bodypart. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.**LED Streetlight 40watts (P.No.66, I.No.12.8.2 of KPWD Electrical SR 19-20)**								
		Nos							
	Singapura Layout Burial Ground						50.00		
			50			**Nos**	**50.00**	**3360.00**	**168000.00**
	Basic Rate	**3360**							
	Borewell								
33	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction (Sl no.13.04) PRED.SR 2019-20								
	Basic Rate	**3768.00**							
	Area Weightage 6%	**226.08**							
	Total	**3994.08**							
			1			**Each**	**1**	**3994.08**	**3994.08**
34	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) Sl no. 13.01 PRED SR 2019-20								
	Basic Rate	**347**							
	Area Weightage 6%	**20.82**							
	Total	**367.82**							
	0 to 50 m		1	50.00		m	**50.00**	**367.82**	**18391**
	Basic Rate	**442**							
	Area Weightage 6%	**26.52**							
	Total	**468.52**							
	50 to 100 m		1	50.00		m	**50.00**	**468.52**	**23426**
	Basic Rate	**456**							
	Area Weightage 6%	**27.36**							

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	100 to 150 m Total	483.36							
	Basic Rate	536	1	50.00		m	50.00	483.36	24168
	Area Weightage 6%	32.16							
	150 to 200 m Total	568.16							
	Basic Rate	634	1	50.00		m	50.00	568.16	28408
	Area Weightage 6%	38.04							
	200 to 250 m Total	672.04							
	Basic Rate	700	1	50.00		m	50.00	672.04	33602
	Area Weightage 6%	42							
	251 to 300 m Total	742							
	Basic Rate	825	1	50.00		m	50.00	742.00	37100
	Area Weightage 6%	49.5							
	300 to 350 m Total	874.50							
			1	50.00		m	50.00	874.50	43725
35	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other end with a plastic protection end (including of all taxes) SE PRED III NO 84 Specification Wrong Jr								
			1	54.00		Rmtr	54.00	1325.00	71550
36	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirements and testing complete as per specifications. - 250mm dias. (Page No. 88 Item No. 12.116.5) PWD SR 2018-19								
	Basic Rate	2075							
	Area Weightage 6%	124.5							
	Total	2199.5							
			1	12.00		Rmtr	12.00	2199.50	26394
37	Providing 175mm dia ms casing cap page no III it no 85 pred 12-13 sr								
			1			Nos	1	100.00	100
38	Providing MS Casing pipe collars page no III it no 86 pred 12-13 sr								
			1	1.00		Nos	1	150.00	150
39	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings . PAGE NO XLII PWD SR 2018-19								
	12.5 HP /9.3kW 30 Stage		1				1		
						Unit	1	60679.00	60679
40	KSRB13-3.1: Providing and fixing to wall celling and floor glavanised/ mild steel tubes (medium grade 1.27 kg /mt) B class 50 mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. (Page 92 ITEM NO 13.6)PWD SR 2018-19								
	Basic rate	512.00							
	Area Weightage 6%	30.72							
	Sub Total	542.72							
			1	280.00		Mtr	280.00	542.72	151961.6
41	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and Powder coated extrued PVC sheathed suitable for working voltage upto 1100 Volts as per IS - 694 ; 1990 AND CONFORMING TO gtp OFGROUP A P. No. 07/ I No. (2.6.4) 3cx 6.0 Sqm KPWD Electrical SR 2019-20								
			1	580.00		Mtr	580.00	205.00	118900
42	Labour charges for erection of new/ repaired submersible pumpset along with gi pipes inculding transportion each length pno 558 ino 3 bwssb sr 14-15								
			1	50.00		Nos	50	88	4400
43	Supplying and flush polished wood board with out front frount plank made of not less than 15mm thick plank after due groove cutting Finishing with necessary on fixing the same to the wall using tapered inverted wooden plugs screws etc., P No. 24 I No.6.6.6 KPWD Electrical SR 2019-20								
	20x20x2.5		1			Each	1	292	292
44	Supplying of 1.1 KV LT UG cable having aluminium condutor PVC insulated shethed, EXTREDED INNER SHEATHRD galvnised steel,stirp confirming IS 3975;1990 AND extruded PVC outer sheathing armoured cable IS 1554 part 1;1998 and confirming to GTP of group P No.40/ I No.6.4.4 (4 core 16 Sqmm) KPWD Electrical SR 2019-20								
			1	85.00			150.00		
	For Burial ground lighting		1	1000			1000		
						Mtr	1150.00	140.40	161460
45	Labour charges for laying of 1.1 K.V class UG cable, P No. 41 / I No. 6.5.1 In existing trencg/duct 6Sqmm to 16 Sqmm) KPWD Electrical SR 2019-20								
			1	35.00		Mtr	35.00	11.88	415.8
46	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete P No. 41/ I No.6.6.4 KPWD Electrical SR 2019-20								
	For Cutting Road Surface aspalt		1	32.00		Mtr	32.00	113.00	3616
47	Supplying and fixing of Class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class P. No. 42/ I No.6.9.1 KPWD Electrical SR 2019-20								
	40mm dia GI pipe		1	2.00		Mtr	2.00	335.00	670

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Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
48	Supplying and fixing L.T. cast iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No.42/ I No. 6.10.2 KPWD Electrical SR 2019-20								
	16Sqmm		1			Nos	1.00	270.00	270
49	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (P No.40, I No. 6.1) KPWD Electrical SR 2019-20								
			1			NO	1	2999.70	2999.7
50	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... P No24/I No 5.7.4 KPWD Electrical SR 2019-20								
	100 Amps								
			1	3		Each	3	349.00	1047
51	Supplying and fixing of heavy duty glands for ug cable 1.1 kv etc., complete.... P No 42 I No 6.11.2 KPWD Electrical SR 2019-20								
	25mm dia								
			1	6		Each	6	84.00	504
52	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 32 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications pno 27 IT 5.17.5 KPWD Electrical SR 2019-20								
	40 Amps DP		1			Each	1	1336.00	1336
53	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility. P No. 31, I. No.5.44 KPWD Electrical SR 2019-20 5.44.4								
	600mmx600mmx170mm		1			Each	1.0	12081.00	12081
54	KSRB 13-7.1-4: Providing and fixing in position 65mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 Page No.90 Item No. 13.56 / PWD SR 2018-19								
	Basic rate	**1728.00**							
	Area Weightage 6%	**103.68**							
	Sub Total	**1831.68**							
			1			NOS	1	1831.68	1831.68
55	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No.92/ I. No. 13.81.3 PWD SR 2018-19								
	Basic rate	**210.00**							
	Area Weightage 6%	**12.6**							
	Sub Total	**222.60**							
	50mm dia		1	2.00		NOS	2	222.60	445.2
56	Gate value 65mm nominal bore gun metal **P. No.XXVI sl No. 662 PWD SR**								
	65mm dia		1	2.00		NOS	2	1694.92	3389.84
57	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. PRED Bangalore Circle SE Approved Date 30.07.2010 12.5HP to 30 HP Star Delta Starter								
			1			NOS	1	10000.00	10000
58	Earth work excavation By Manuall Means for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in Soft rock/ ordinary rock not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications (P.No.6, I.No.2.3) PWD SR 2018-19								
			1	500.00	0.60	0.90	270.00		
	Basic rate	**299.00**							
	Area Weightage 6%	**17.94**							
	Sub Total	**316.94**							
						Cum	270.00	316.94	85573.8
59	Filling the Foundation Trenches using approved Sand as per Drawing & Technical Specification in 250mm layers, Whereever necessary watering and ramming including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications Morth Chapter 12 (P.No.221, I.No.27.14) PWD SR 2018-19								
			1	500.00	0.60	0.25	75.00		
	Basic rate	**3039.00**							
	Area Weightage 6%	**182.34**							
	Sub Total	**3221.34**							
						Cum	75.00	3221.34	241600.5

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Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
60	KSRB13-9.3 : Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6.00 kgf/sq.cm working pressure 63mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No KBS 13.2 15.2 / 13.9 (Page no.94, Item No 13.73.2) PWD SR 2018-19								
							500.00		197160
			1	500.00			500.00	394.32	
	Basic rate	372.00				Rmtr			
	Area Weightage 6%	22.32							
	Sub Total	394.32							
61	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications. (Page No.7, Item No. 2.11) PWD SR 2018-19								
	From Pipe line excavation						270.00		
	Deduct from item no. 30						-75.00		
	Basic rate	121.00							
	Area Weightage 6%	7.26							
	Sub Total	128.26							
62	BESCOM Deposit					Cum	195.00	128.26	25010.7
63		L/S	1			Nos	1	13000.00	13000.00
64								Sub Total	12679098
65								12% GST	1508314
66								For 2% PMC & DPR Charges	253582
67								Miscellaneous and rounding off	4006.25
								Grand Total	14445000.00

Certificate:

1. The rates adopted based on the KPWD Electrical SR 19-20, PWD SR, Bangalore circle for year 2018-19.
2. The provisions made in the estimate are necessary and essential.
3. The workspot was inspected and work is found to be necessary.
4. The area comes within the Bruhat Bangalore Mahanagara Palike limits.

Junior/Assistant Engineer
~~Ward No-11~~

Assistant Executive Engineer
Yelahanka Project Zone Sub-Division

Executive Engineer
Yelahanka Project Zone Division

Technical Sanction
Accorded for Rs.14445 Lakhs Only
Head of A/C P-04815
CER NO :288 Dt:11/02/2020

CE (YNK)

Administrative Approval
Accorded For Rs.14445 Lakhs Only
Head of A/C P-04815
CER NO :30 Dt:16/09/2020

S.E. (Project)

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